

# BioEcon - New Strategies on Bio-Economy in Poland



Wiesław Oleszek

## Strengthen IUNG's proficiency on “Managing the Production of Food and feedstuff, their safety and quality under global Climatic Change”

FP7-REGPOT-2009-1

Work programme topics addressed: Area: 4.1.Unlocking and developing the research potential of research entities in the EU's convergence regions and outermost regions - REGPOT-2009-1 (**2.8 mln €**) – Prof. W. Oleszek (coordinator)





## Center for Agriculture Research





## Center for Agricultural Research - inside





## Agricultural sustainability (crops + trees)

### Collaboration



### Tools

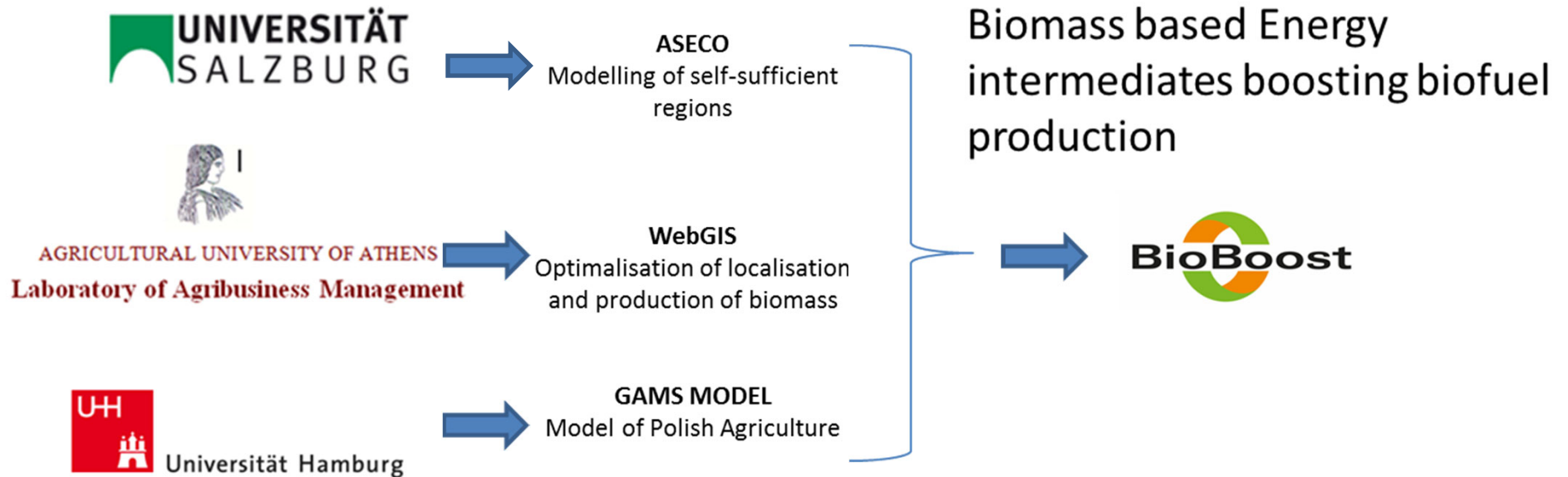
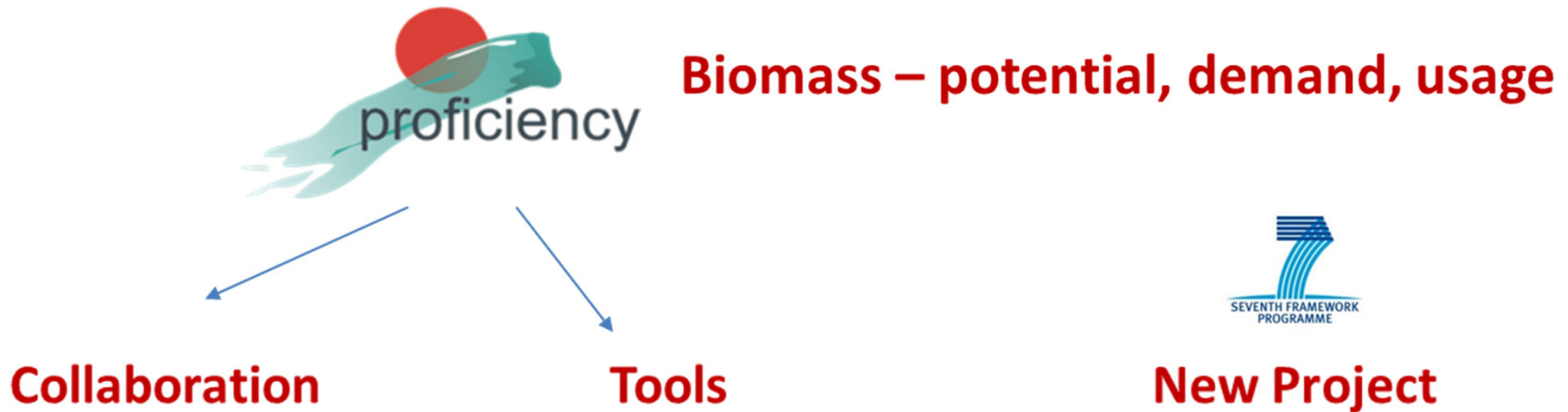
**SEMoLa**  
Modeling of sustainable  
farming systems

**Sap flow technique,  
Coup model**  
Measurement of trees  
transpiration, water balance  
modelling

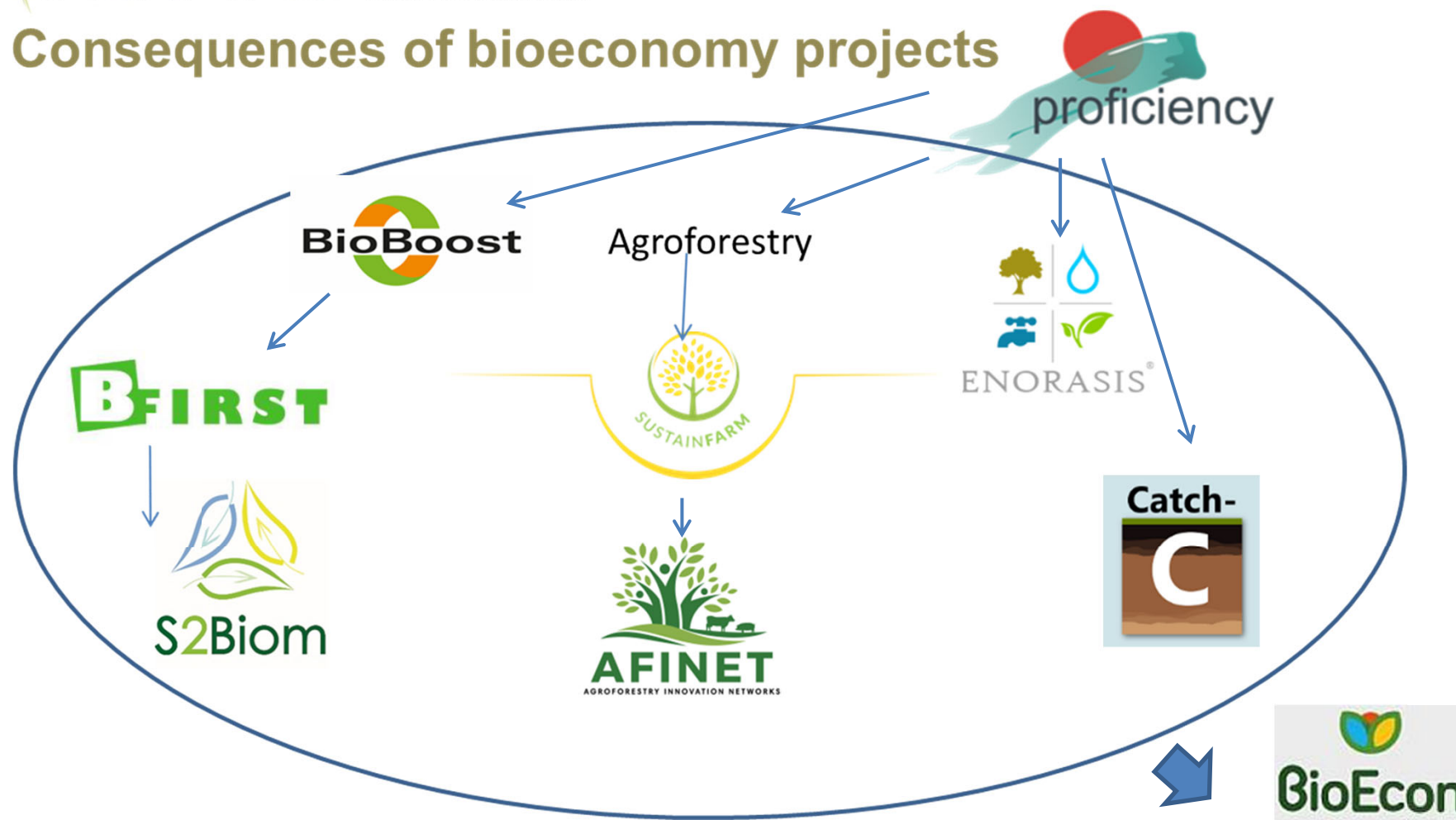
Water balance models for  
**Agroforestry**

### Results

**EC projects**



## Consequences of bioeconomy projects



New Strategies on Bio-Economy in Poland  
(2015-2020)





## ***New Strategies on Bio-Economy in Poland***

Project Acronym: *BioEcon*

Project Number: 669062

Starting date: 01/07/2015

Duration in months: 60

Call (part) identifier: H2020-WIDESPREAD-2014-2

Topic: WIDESPREAD-2-2014 ERA Chairs

Total requested EC contribution 2 449 496 EUR





WP Number	WP title	Start month	End month	WP Leader
<b>1</b>	Recruitment of ERA Chair	1	9	Wiesław Oleszek
<b>2</b>	Brain gain	7	12	Stelios Rozakis
<b>3</b>	New interdisciplinary strategy development	7	18	Stelios Rozakis
<b>4</b>	Regional support mobilization and development of a regional cluster for bioeconomy	10	55	Jerzy Kozyra
<b>5</b>	Cooperation for excellence	12	55	Rafał Pudelko
<b>6</b>	Widening of participation and concentration of resources	7	55	Stelios Rozakis
<b>7</b>	Dissemination and exploitation	1	60	Magdalena Borzęcka-Walker
<b>8</b>	Evaluation	57	60	Wiesław Oleszek
<b>9</b>	Management	1	60	Wiesław Oleszek

This project has received funding from the European Union's programme HORIZON 2020, call: H2020 WIDESPREAD-2014-2, topic: WIDESPREAD-2014-2 ERA Chairs under grant agreement No 669062.

## **WP1 - Recruitment of ERA Chair**

### **Task 1.1** Administrating the new interdisciplinary department (M1)

**25 March 2015** establishment of the **Department Bioeconomy and System Analysis**. 



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# BioEcon Team



**Chair**  
**Prof. Sytelios Rizakis**



**Dr Efstratios Loizou**



**Dr Kesheng Shu**



**Dr Nosra Ben Fradj**



**Dr Hassan Pishgar-Komleh**



**Aneta Pieczykolan**



**mgr Piotr Jurga**



## Task 1.2 HR procedure for the ERA Chair recruitment (M1)

### *Human Resources Strategy for Researchers*



HR EXCELLENCE IN RESEARCH

**July, 2015** declaration of support to the Charter and the Code

**March 2016** European Commission granted logo of "HR Excellence in Research" for the Institute of Soil Science and Plant Cultivation - State Research Institute in Pulawy.

## Climate change - transformation to RES – clustering activity



### Support for Green SME's



### Support for local authorities

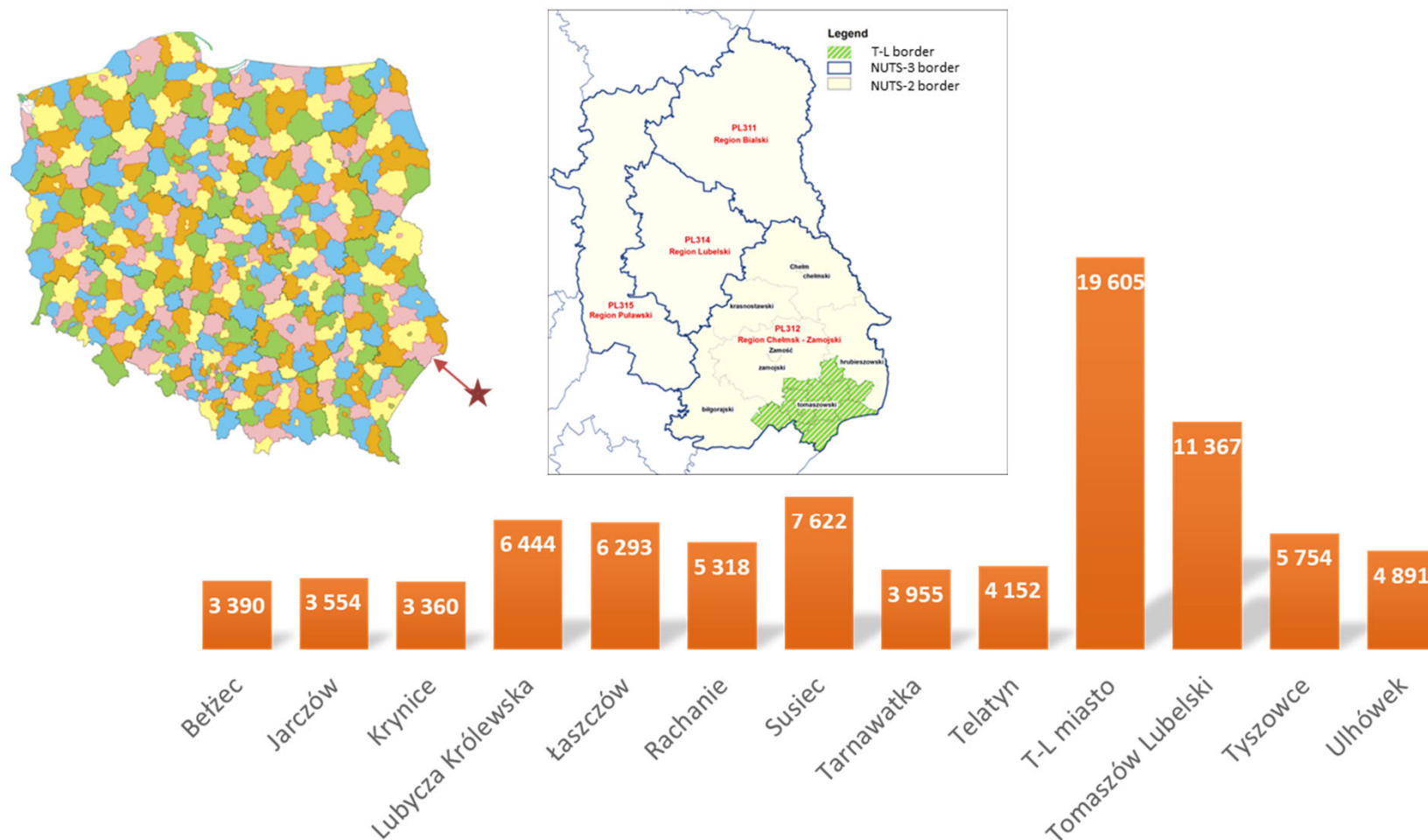
**Tomaszów Lubelski Energy Cluster (TLEC)**  
36 partners, created: October 2017



To improve energy security and strengthening local economies  
by optimizing the use of locally available energy resources

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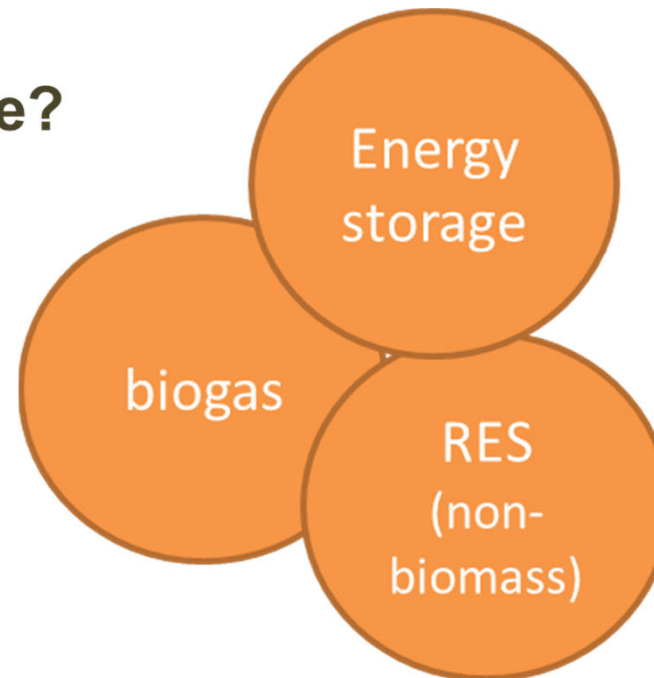
# The case study area



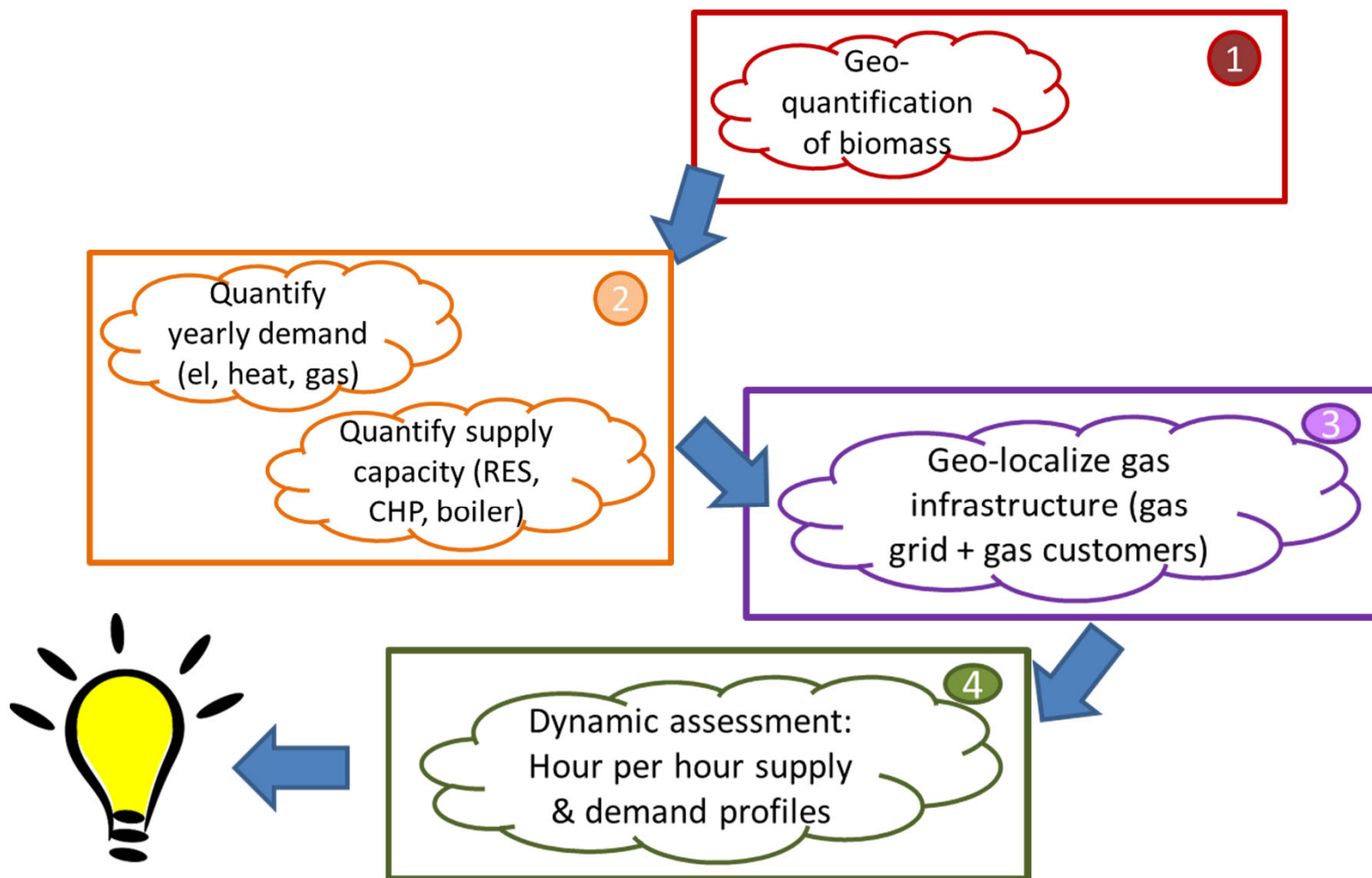
Total pop: 85.705 inhab. Area: 1500 km<sup>2</sup>. (Poland is: 38 M inhab ; 312,679 km<sup>2</sup> )  
 380 powiats. As of 2010 there were 2,478 gminas throughout the country.



- **How can the “powiat” be as self-sufficient as possible in energy?**
- **What investments to make?**
- **Expressed preferences**
  - **Local solutions**
  - **“Simple”**
  - **Cheap**

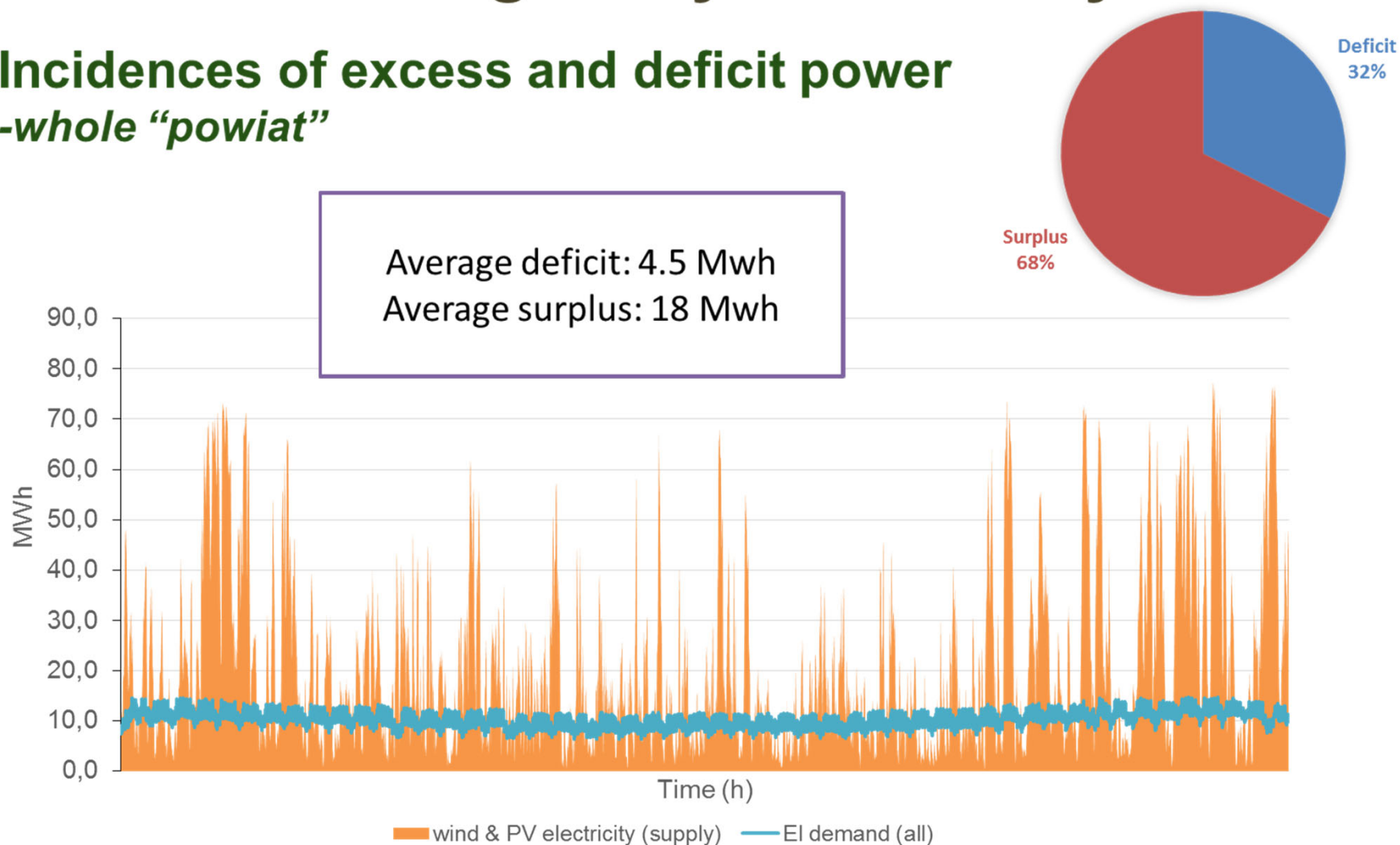


# Step-wise methodology



## Role of biogas. Dynamic analysis

### Incidences of excess and deficit power -whole "powiat"





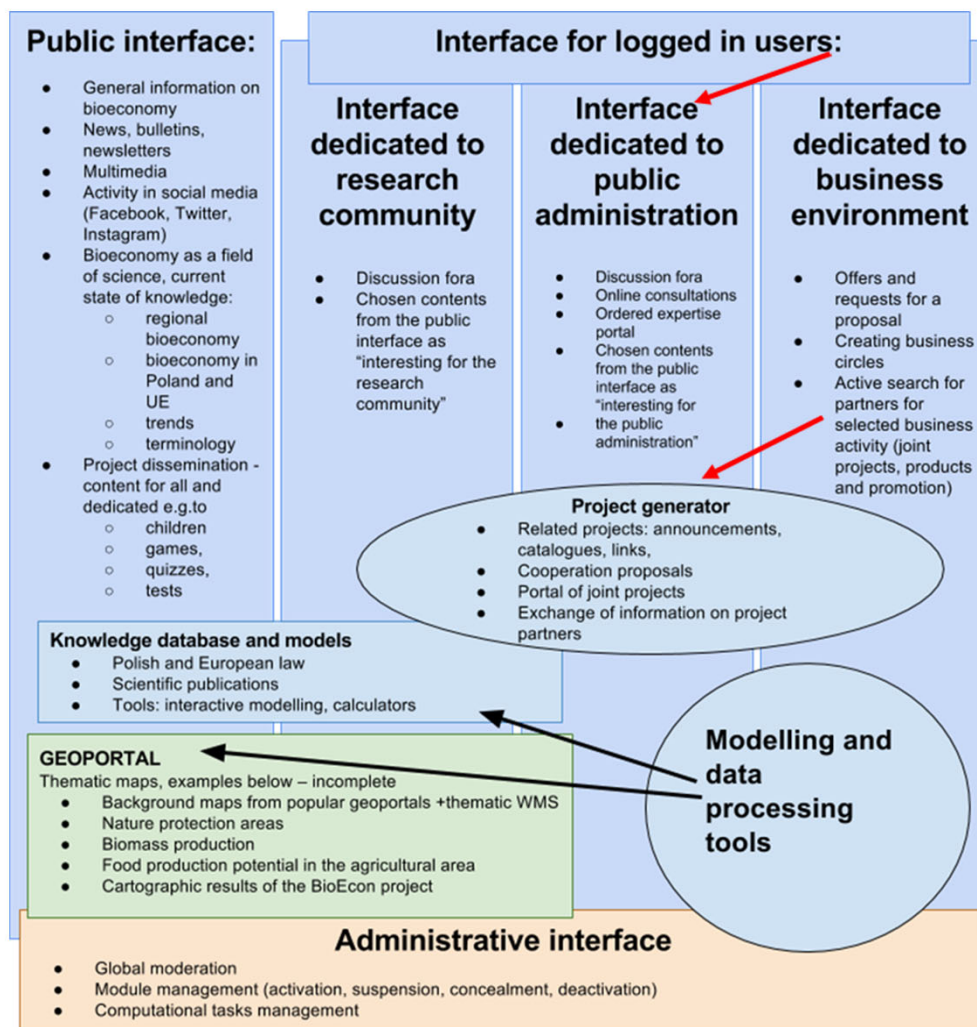
# Bioeconomy – new interdisciplinary studies: New ideas



BioEcon Platform:

eTool for:

- Dissemination
- Collaboration
- Research
- Management



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Thank you for your  
attention